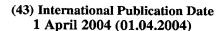
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	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	Relevant to claim No.			
P, X	DA SILVIA N. et al. HnRNP-K and Pur(alpha) a transcriptional activity of the CD43 gene promoter.		98-105		
P, Y	No. 10, pages 3536-3544.	82-90			
x	SHELLEY C.S. et al. During U937 monocytic dif	ferentiation repression of the CD43	98, 102-105,		
 37	gene promoter is mediated by the single-stranded D		*******		
; Y	Haematol. October 2001, Vol. 115, No. 1, pages 159-166.				
A	FAROKHZAD O.C. et al. CD43 gene expression is mediated by a nuclear factor which binds pyrimidine-rich single-stranded DNA. Nucleic Acids Res. June 2000, Vol. 28, No. 11, pages 2256-2267.				
Y	TKACZUK J. et al. The CBF.78 monoclonal antibody to human sialophorin has distinct properties giving new insights into the CD43 marker and its activation pathway. Tissue Antigens. July 1999, Vol. 54, No. 1, pages 1-15.		72, 74-81, 82, 91-97		
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INTERNATIONAL SEARCH REPORT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	MIAU L.H. et al. Identification of heterogeneous nuclear ribonucleoprotein K (hnRNP K) as a repressor of C/EBPbeta-mediated gene activation. J. Biol. Chem. 24 April 1998, Vol. 273, No. 17, pages 10784-10791.	1-114
Y	KUDO S. et al. A short, novel promoter sequence confers the expression of human leukosialin, a major sialoglycoprotein on leukocytes. J. Biol. Chem. 5 May 1991, Vol. 266, No. 13, pages 8483-8489.	98-114
Α .	SHELLEY C.S et al, Molecular characterization of sialophorin (CD43), the lymphocyte surface sialoglycoprotein defective in Wiskott-Aldrich syndrome. Proc. Natl. Acad. Sci. USA. April 1989, Vol. 86, No. 8, page 2819-2823.	1-114
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